

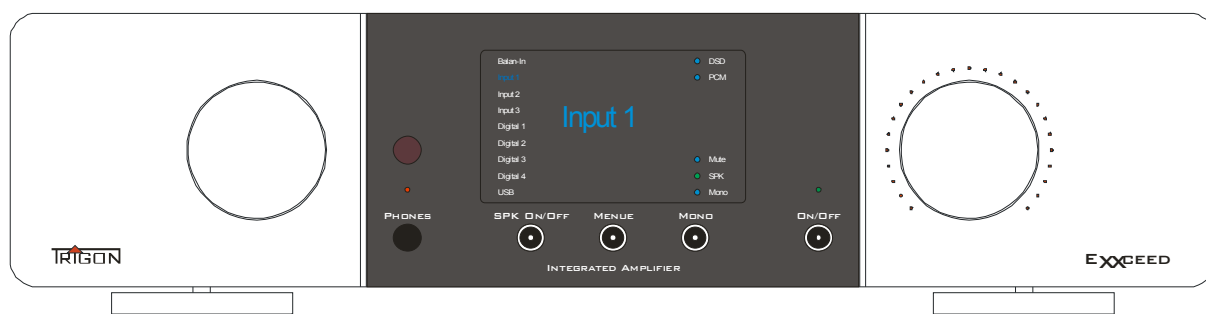
TRIGON

ELEKTRONIK GMBH

MANUAL

INTEGRATED AMPLIFIER

EXXCEED



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1 Introduction

Valued **TRIGON** - Customer,

We are excited that you have chosen to purchase the **EXXCEED** integrated amplifier.

This unit was built using the highest quality control to insure utmost precision in manufacturing.

Whether you are a beginner to High-Fi or advanced user, it is highly recommended that you read and understand this User's Manual thoroughly before using your new integrated amplifier.

Be sure to keep this manual easily accessible as it could come in handy during normal use of this amplifier.

We hope that you enjoy your new amplifier and thank you for choosing **TRIGON**.

2 General Description

The **EXXCEED** is a High-End integrated amplifier with 9 inputs (CD-Player, Tuner, TV etc.). There are 4 analogue inputs and 4 (5) inputs for digital devices.

The integrated PHONES amplifier is able to drive headphones with an impedance between 30 and 250 Ohm. The powerful analog output stage can drive loudspeakers with an impedance from 3 ohms. The **EXXCEED** can be operated via two rotary knobs and four touch sensors as well as the optionally available IR remote control **DIRECTOR PREMIUM**.

The LED displays are customizable to your personal needs. The TFT display informs you about all settings. The color of this display is individually adjustable.

The massive housing of the **EXXCEED** consists of 2mm steel plate as well as a 10mm strong aluminum front panel. The device feet work according to the principle of a plate spring and decouple the Exxceed effectively from the stand. Due to this elaborate housing design, sound effects are minimized through microphony.

2.1 Safety Information

TRIGON ELEKTRONIK GMBH will not assume any responsibility for damages occurred from unsafe handling of the product or from not adhering to the recommend safety instructions below.

- The amplifier should not be used un-monitored in close proximity to heat producing devices such as Water heaters, Fireplaces or Flammable materials.
- The amplifier is not designed to withstand heavy impacts or severe vibrations.
- The amplifier should not be used un-monitored when being transported from a cold environment into a warm room.
- The amplifier should not be used when placed out in direct contact with the Sun.

- Insure that the installation location for this product has adequate ventilation.
- The amplifier should not be doused with any type of liquid. It is imperative that no liquid get inside the unit.
- Never use this product without the shielded top cover installed.
- Before removing the top cover always insure that the AC cord has been removed from the AC outlet and that the product has sat to drain any residual current.
- Never short any of the fuses. Replace broken fuses only with original fuses of the same value and type.
- Do not attempt to service this unit. Repairs are only to be done by authorized service centers or through the factory direct. Any such unauthorized repairs will result in a voided warranty.
 - Always make sure that your complete audio system is shut off before changing any cables or connecting any other components.

The **EXXCEED** is set at the factory to be operated in **230V AC**. Contact your local dealer or **TRIGON** directly if you should need a different voltage version.

2.2 Installation Information

During unpacking, please inspect the unit for any potential transportation damage. If you notice any damage, please get in contact with your dealer.

Confirm the contents of the box. In addition to the **EXXACT**, you should also have the following:

- User's Manual
- Warranty Card
- Power cord

Place the unit on a dry, level surface. Be sure that the unit has good ventilation around it. Strong magnetic fields commonly found in amplifier transformers and halogen light transformers can induce hum into a system. Because of this, it is best to place the unit a reasonable distance from such devices. Also, the audio interconnects should not be run in parallel to AC power cables as this can also induce noise.

Hum is also produced from light bulbs. It is best to place audio equipment at least 3 feet away from them.

Try to utilize natural light and make sure not to use the **EXXCEED** unmonitored next to heat sources.

2.3 Warranty and Service Information

In choosing the **EXXCEED**, you have selected a valuable and technologically advance product. We at **TRIGON** are trying to improve our quality control through all steps in the production cycle to insure that all **TRIGON** products meet our

quality expectations. If a problem is experienced, **TRIGON ELEKTRONIK GMBH** offers a three-year warranty. This warranty covers repairs for any manufacturing defects.

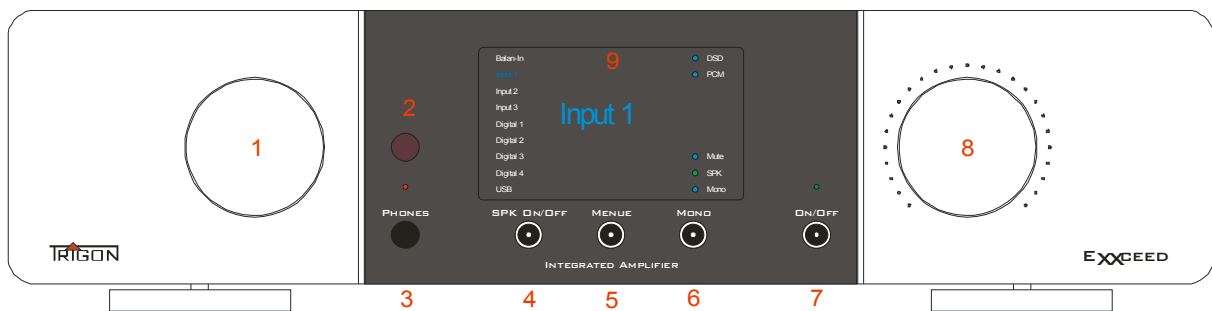
It does not cover damages that are the result of neglect or misuse. It also is considered void if unauthorized personnel do any repairs or modifications. Any alterations to the serial number, or transportation damage are not covered as part of this warranty.

3 Initial Setup

After unpacking the amplifier, the unit should warm up to the ambient temperature. Particularly in the cold season, moisture can also build up inside the case when the device comes from a cold to a warm environment.

If the equipment has been acclimatized, we recommend that you familiarize yourself with your new **EXXCEED**.

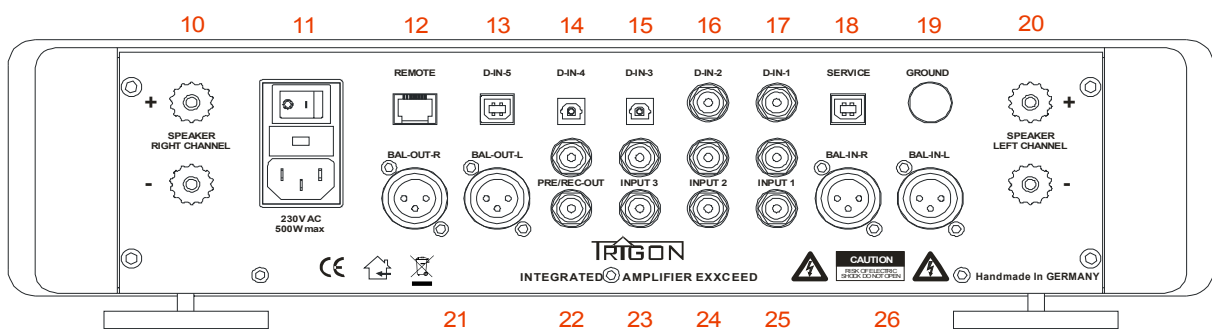
EXXCEED
front view



Plug the **TRIGON VOLT** cable into the **EXXCEED** socket (11) and connect the power plug to the power supply.

Switch on the integrated standby power supply by pressing the switch (11) on the back of the **EXXCEED**.

EXXCEED
rear view



ATTENTION!!! Before you start with the wiring, however, you should switch off the **EXXCEED**, as well as the other devices of your system, as always when working on the cabling. Avoid plugging into a UNBAL INPUT when the **EXXCEED** RCA plug is plugged in. Unfortunately, these connectors first connect to the signal contact and then connect to the neutral feedback (ground), which usually results in a very strong hum, which can destroy the amplifiers and / or your speakers!

3.1 Front Panel Controls and Display

We tried to design the number of control elements according to the formula "as much as necessary, as little as possible". In addition, it was important to us during the conceptualization that the amplifier in the basic functions remains as simple to operate as possible and can be operated intuitively. So everyone will immediately assign the function of the volume setting to the large right rotary knob (8)

The rotary knob (1) on the left is used to select the inputs and the **EXXCEED** is switched on or off with the sensor button (7).

The elements in detail:

(1) Inputselector

This knob selects the input. The selected input is shown in the display (9). The name of the individual inputs can be set individually. (See also 5.9)

(2) IR-Window

Behind this disc is the infrared remote control receiver.

(3) Headphone jack

A 6.3mm jack plug of a headphone can be plugged into this socket. The impedance of the headphone should be between 32 and 250 ohms.

If you want to switch off the playback via the loudspeakers while you are using the headphones, tap the sensor field (4). The LED above the headphone connector lights up and indicates that the loudspeakers are now switched off.

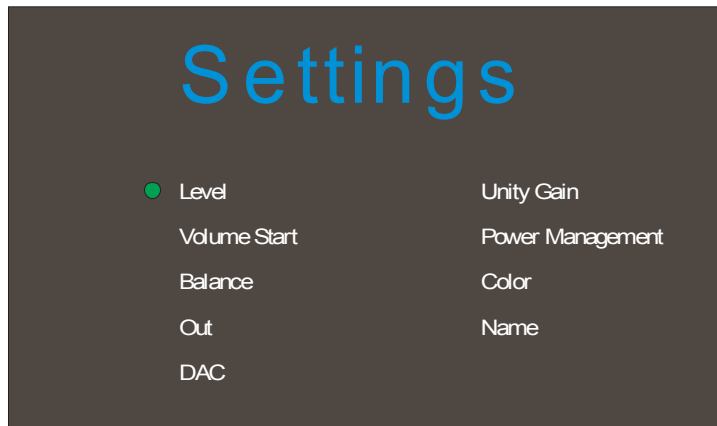
To reconnect the speakers, tap the sensor field again (4). The LED above the headphone jack goes out, the volume is reduced to the power-on level, and the speakers are reconnected.

(4) Sensor Key SPK On/Off

The speakers can be switched on or off at this sensor field. When the loudspeakers are switched on, a dot on the left before the label "SPK" appears in the lower right corner of the display (9).

(5) Sensor Key MENUE

The **EXXCEED** has extensive settings. Touching the **MENUE** button will take you to the Settings menu.



The following settings are available:

Level	(3.2.1)	Unity Gain	(3.2.6)
Volume Start	(3.2.2)	Power Management	(3.2.7)
Balance	(3.2.3)	Color	(3.2.8)
Out	(3.2.4)	Name	(3.2.9)
DAC	(3.2.5)		

(6) Sensor Key MONO

This button can be used to switch the mono function on or off. If MONO is activated, a dot appears in the lower right corner of the display before the "MONO" label. In addition, the last LED of the volume indicator lights up.

(7) On/Off Key

If the main power switch (11) on the back of the device is switched on, the Exxceed is switched on or off. Tap your finger on the circle icon under the label On / Off. Within the circle, an LED is lit and as soon as you remove the finger, the Exxceed turns on or off. When the power is off, the LED above the keypad will turn red (standby) and green when the keypad is in the state.

During the power-up process, the color of this LED flashes between yellow and green. As soon as the switch-on process is completed, the LED is constantly green.

REMARK: We have equipped the Exxceed with a very power saving standby power supply. The power consumption in standby mode is less than 1 watt. You can always connect the Exxceed to the power supply in standby mode without switching it off completely with the mains switch (11).

If, however, you do not want to use the Exxceed for a longer period of time (holidays, etc.), you can also switch off the power supply completely with the switch (11). In the case of severe storms with a risk of lightning, it is also recommended to disconnect the mains connection, ie pull the mains plug!

(8) Volume knob and volume indicator, mute function

This button is used to adjust the volume. The adjusted volume is indicated by the LED's arranged around the volume knob.

Pressing the volume button invokes the mute function, i. the volume is set to a minimum value. When the mute function is activated, a dot appears in the lower right corner of the display before the name "Mute".

Pressing the rotary knob again or turning the volume knob will cancel the mute function and restore the previous volume level.

(9) Display

The Exxceed is equipped with a TFT display, which informs about all settings. The text colors can be set individually in the "Settings → Color" menu. If you want to switch off the display completely, you can set this in the menu "Settings → Power Management".

3.2 Settings

Note: All the descriptions below assume that you have already switched on the settings menu as described above.

3.2.1 Level

In this menu, you can individually adjust the volume (level) for each input to minimize volume differences when switching to another input. Since only a lowering of the levels can be made, the input with the lowest level should be selected as reference. All other inputs are then tuned to this input.

- Use the input selection switch (1) to select the Level sub-menu
- Press the input selector (1) to enter the company level
- Turn the input selector until you reach the input you want to set.
- Use the volume knob (8) to adjust the level. To be able to compare the level with the "reference input", use the input selection switch (1) to set this input again. Proceed with all other inputs.
- To exit the submenu "Level", press the input selector (1) once and return to the "Settings" menu.

To return to the standard interface and exit from the setup menu, tap the Menu (5) button.

3.2.2 Volume Start

The **EXXCEED** has an electronic volume setting. In this submenu, you can adjust the volume that is set when the **EXXCEED** is turned on.

- Use the input selection switch (1) to select the **Volume Start** submenu
- Press the input selector (1) to enter the **Volume Start** submenu
- Use the volume knob (8) to adjust the desired startup volume
- Press the input selector (1) again to exit this submenu.

3.2.3 Balance

In this submenu the stereobalance can be adjusted.

- Use the input selection switch (1) to select the Balance sub-menu
- Use the volume knob (8) to adjust the stereo balance
- Press the input selector (1) again to exit this submenu

3.2.4 Out

In this submenu, you can turn the headphones connection (Phones) on and off, and you can specify how the preamp output PRE / REC-OUT (22) should be connected.

Turn on or off headphones:

- Use the input selector (1) to select the **Out** submenu
- Press the input selector (1) to enter the **Out** submenu
- Use the input selector (1) to select **Phones**
- Use the volume knob (8) to turn on or off
- Press the input selector (1) again to exit this submenu.

Selecting Record or Preamp Out:

- Use the input selector (1) to select the **Out** submenu
- Press the input selector (1) to enter the **Out** submenu
- Use the volume knob (8) to select PreOut or Record
- Press the input selector (1) again to exit this submenu.

3.2.5 DAC

In this submenu different filters can be switched on with the integrated digital-analog converter. Select the filter that you like best.

- Use the input selector (1) to select the **DAC** submenu
- Press the input selector (1) to enter the **DAC** submenu
- Use the volume knob (8) to select one of the four filters
- Press the input selector (1) again to exit this submenu.

3.2.6 Unity Gain

With this setting, the volume control of the selected input is bridged. This setting is required when the **EXXCEED** is operated within a multi-channel system. Unity gain is only available for the analog inputs.

Enable Unity Gain:

- Use the input selector (1) to select the **Unity Gain** submenu
- Press the input selector (1) to enter the **Unity Gain** submenu
- Use the input selection switch (1) to select the analog input to which your multi-channel amplifier is connected.
- Turn the volume knob (8) to the right until "Unity Gain [the selected input] is on".
- Press the input selector (1) again to exit this submenu.

Unity gain is now activated for the selected input. This input is highlighted in the standard screen. Whenever you switch to this input, the volume is automatically raised until the unity gain level is reached.

If, in spite of all the care, you have accidentally activated **Unity Gain**, and if this is not the case, you can adjust the volume manually by turning the volume knob (8). Note, however, that the **Unity Gain** setting remains stored until you are deactivated.

Disable Unity Gain:

- Use the input selector (1) to select the **Unity Gain** submenu
- Press the input selector (1) to enter the **Unity Gain** submenu
- Use the input selection switch (1) to select the analog input with which **Unity Gain** is activated.
- Turn the volume knob (8) to the left until "**Unity Gain** [the selected input] is off".
- Press the input selector (1) again to exit this submenu.

Now UnityGain for this input is switched off again.

3.2.7 Power Management

In this submenu, you can set the following:

- (3.2.7.1) Display Timeout
- (3.2.7.2) LED-Brightness
- (3.2.7.3) Power Timeout
- (3.2.7.4) Remote Power

3.2.7.1 Display Timeout

Here you can switch the display on and off. However, the display will always turn on again when you make changes to the device (e.g., other input). The time (timeout), which should remain on the display, can be set here. A timeout between 3 and 255 seconds can be set.

- Use the input selection switch (1) to select the **Power Management** submenu
- Press the input selector (1) to enter the **Power Management** submenu
- Use the input selection switch (1) to select **Display Timeout**
- Use the volume knob (8) to set the time between 3 and 255 seconds. In position "**Off**", the display timeout is switched off and the display is permanently switched on again.
- Press the input selector (1) again to exit this submenu.

3.2.7.2 LED-Brightness

Here you can adjust the brightness of the LED volume display.

- Use the input selection switch (1) to select the **Power Management** submenu
- Press the input selector (1) to enter the **Power Management** submenu
- Use the input selection switch (1) to select **LED Brightness**
- Use the volume knob (8) to adjust the brightness in steps between 0 and 20.
- Press the input selector (1) again to exit this submenu.

3.2.7.3 Power Timeout

The **EXXCEED** has an adjustable automatic shut-off device. The time until the Exxceed switches off is adjustable between 10 and 255 minutes. The shutdown time also depends on when the last audio signal was played back. From this point onwards, the timer starts counting down the set time and then turns off the device. If, however, an audio signal is reproduced again within this time, the timer is reset to its initial time.

- Use the input selection switch (1) to select the **Power Management** submenu
- Press the input selector (1) to enter the **Power Management** submenu
- Use the input selector (1) to select **Power Timeout**
- Use the volume knob (8) to set the time between 10 and 255 minutes. In Sell "Off", **PowerTimeout** is switched off.
- Press the input selector (1) again to exit this submenu.

3.2.7.4 Remote Power

The **EXXCEED** can provide a 10V DC voltage to the socket (12) for remote switching of other devices that can be turned on or off by means of such a control voltage (e.g., active subwoofers). If **Remote Power** is switched on (On), this control voltage is present at the socket (12) whenever the **EXXCEED** is switched on. If you want to switch off the remotely switched-on device (for example, to listen to music with headphones), you can also switch off the control voltage in this submenu.

- Use the input selection switch (1) to select the **Power Management** submenu
- Press the input selector (1) to enter the **Power Management** submenu
- Use the input selector (1) to select **Remote Power**
- Switch on the control voltage (On) or Off (Off) with the volume knob (8)
- Press the input selector (1) again to exit this submenu.

3.2.8 Color

The text colors of the display can be set individually at the **EXXCEED**.

- Use the input selector (1) to select the **Color** sub-menu
- Press the input selector (1) to enter the submenu **Color**
- Use the input selection switch (1) to select the "**Headline, Text or Selection**" function
- Use the volume knob (8) to change the color setting. The selected color is displayed for checking in a small square
- Press the input selector (1) again to exit this submenu.

3.2.9 Name

You can assign individual names to the inputs. Each name can consist of seven characters.

- Use the input selector (1) to select the submenu **name**
- Press the input selector (1) to enter the submenu **name**

- Use the input selection switch (1) to select an input (left text column) that you want to change
- Use the volume knob (8) to select the letter position. Press the volume knob (8).
- Use the volume knob (8) to select the character you want to use
- Press the volume button (8) again to fix the character.
- Use the volume knob (8) to select the next letter position and confirm by pressing the volume knob (8)
- Use the volume knob (8) to select the character you want to use
- Proceed with all other characters
- Finally, press the input selector switch (1) to exit the submenu **name**

3.3 Rear Panel Connections

(10 & 20) Loudspeaker Binding Posts

The loudspeaker cable can be connected to the two binding posts of that terminal. The positive output terminal is in the top row, the negative is in the bottom row. Make sure that no loudspeakers with an impedance of less than 3 Ohm are connected. Never short-circuit the binding posts in order to avoid damage to your integrated amplifier.

(11) Power Connection, Power Switch and Fuse

Standby Power Switch: This switch is used to connect the network connection to the **EXXCEED**. However, the **EXXCEED** is only switched on completely by pressing the button (7).

Fuse: Here is the fuse. Only one fuse with the same value may be used!

Power Socket: The power cable is plugged in here. Always pay attention to the correct mains voltage. The **EXXCEED** is set as standard for a mains voltage of **230 V AC**. If the **EXXCEED** has been set up for other mains voltages, there are corresponding indications (labels) on the device.

(12) REMOTE

A 10V DC voltage is applied to this socket as soon as the Exxceed is switched on. This control voltage can be used for the synchronous switching on or off of external devices (for example active subwoofers) if these devices have an appropriate input.

(13) USB Digital Audio Input (USB)

A computer or Mediaplayer can be connected to this socket. With the appropriate playback software, high-resolution audio files can be played back in PCM or DSD format.

(14 & 15) Optical Digital Audio Inputs (Digital-3, Digital-4)

Digital sources (according to the SPDIF standard) can be connected to these two sockets via fiber optics. (E.g., TV set)

(16 & 17) Digital Inputs (DIG-1, DIG-2)

Digital sources (according to the SPDIF standard) can be connected to these two sockets. (E.g., CD player)

(18) SERVICE

A Mediaplayer (CHRONOLOG) from our company can be connected to this USB port. This gives the possibility to control the **EXXCEED** by tablet, smartphone or PC in its basic functions (volume, input selection).

(19) GROUND

In some countries it is necessary to separate the metal housing of the **EXXCEED** separately. This addition can be attached to this contact.

(21) BAL-OUT-R, BAL-Out-L

The preamp output signal is applied to these jacks in a symmetrical form.
(Pin1 = GND, Pin2 = Pos, Pin3 = Neg)

(22) PRE/REC OUTPUT

At this output the unbalanced preamp output can be picked up before the volume control (RECORD function) or after the volume control (PREAMP function). The setting is made in the "Settings → Out" menu.

(23 & 24 & 25) Analogue Input Jacks (Input-1, 2, 3)

Analogue high-level source devices can be connected to these sockets.
(e.g. Tuner, CD-Player, etc.)

(26) Analogue Input Jacks, balanced (Bal-In)

Analogue high-level source devices with balanced outputs (XLR) can be connected to these sockets.

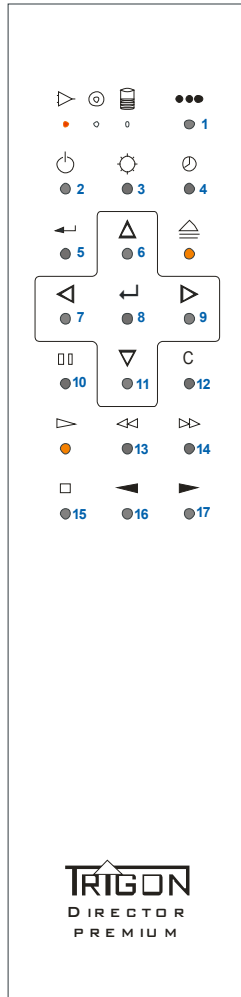
3.3 Quick Start Manual

For the very impatient of you, who have already gained some experience with the use of high-end amplifiers, there is a short introduction to the speed-up.

- Cabling (connect sources and speakers)
- Connect the appliance to the mains and switch on the mains switch (11) on the back
- Press the On/Off button (7)
- Select the source device with the input selection switch (1)
- Ready for operation
- Use volume knob (8) to set the listening volume

3.4 Exxceed and the Remote Controller DIRECTOR PREMIUM

Of course, the most important functions can also be operated with the Trigon infrared system remote controller **DIRECTOR PREMIUM**.



The figure shows the remote control **DIRECTOR PREMIUM**. Since it is a system remote control, it can be operated by three different devices from our company.

The device to be operated can be selected with the (1) button. An LED indicates which device has been selected. Each press of the button (1) changes the device selection. The LED always lights up briefly to acknowledge the pushbutton.

To operate amplifiers, the first LED in the series must be set, as shown in the illustration on the left. Two keys (shown here in orange) have no function for the **EXXCEED**.

The functions in detail.

Button (2): On/Off - Here the **EXXCEED** can be switched on or off.

Button (3): LED Brightness - The brightness of the LEDs for the volume display can be set in several steps.

Button (4): Display Timeout - The timeout for the display can be switched on here. If this function is activated, the display goes out approx. 1.5 seconds after the last operation

Button (5): Back – Return to the level menu.

Button (6 & 11): up, down – When the main screen is active, the input can be selected with these buttons.

If the Settings menu is selected, you can use these buttons to navigate to the submenus.

Button (6 & 11): up, down – These buttons are also used to navigate the various submenus in the [Settings](#) menu.

Button (8): MONO, selection confirmation – When the main screen is active, this button can be used to switch the mono function on and off. In the [Settings](#) menu, the selected sub-menu is selected with this key.

Button (10): Speaker On/Off – This button is used to turn the loudspeaker outputs on and off.

Button (12): Settings Menü – This button is used to switch the settings menu on and off.

Button (13 & 14): Volume up, down quickly – Use these buttons to reduce or increase the volume by 10 steps.

Button (15): Mute-Function – This button is used to turn the mute function on and off.

Button (16 & 17): Volume- , Volume+ – Use these buttons to adjust the volume.

NOTE: The function "Volume" (key 16 and key 17) is always active for the amplifier mode, regardless of which device the remote control is currently set to.

4 What to do, if...

This chapter is designed to help diagnose and trouble-shoot some of the most common errors.

4.1 ... unit doesn't turn on?

- Is the AC plug from the Power supply connected properly to the AC outlet? – *Secure connection.*
- Does the AC outlet that you have the power supply connected to have current, or is it possible that the fuse for that outlet has been blown? – *Test the fuse for that AC outlet at the house fuse box.*
- Is the power switch (11) at the rear side switched ON? – *Switch it ON.*
- *Is the internal fuse blown? – Contact your dealer.*

4.2 ... no sound is produced?

- *Is the correct input selected? - Select the correct input.*
- *Does the source provide a signal at all? - Check sources.*
- *Are the loudspeaker outputs switched off? - Turn back on.*
- *Is the mute function activated? - Switch the mute off.*
- *Has an electrostatic discharge occurred on the device? - Sometimes it can happen, especially in the winter months, when the air humidity is low, that your clothing is electrostatically charged and this electrostatic voltage is suddenly broken when the amplifier is touched. During such discharges, the microprocessor integrated in the EXXCEED can "crash", which is similar to that of computers. In this case, the EXXCEED may shut down the output relay or stop responding. Disconnect the EXXCEED for about 10-20 seconds from the power supply by turning off the power switch (11) on the back of the EXXCEED. As a rule, the device will then function properly again.*

4.3 ... there is a hum?

Are all the connections fastened securely? – Test all cable connections.

Sometimes multiple problems can contribute to a magnetic reception, which will result in a system hum. To fix these types of problems, it is recommend that you contact your local dealer who has many years of experience in trouble shooting such issues.

*It only hums when the tuner, the video recorder or the TV is connected to the **EXXGEED**. - All these devices are connected to an antenna that is itself grounded. This problem can also be related to a magnetic reception. In this case however, the resolution is quite simple. Use of a shielded power filter on the antenna can reduce or eliminate this hum. These types of shielded power filters are readily available at most HiFi or Radio stores..*

4.4 ... unrealistic tests are carried out?

The **EXXGEED** integrated amplifier has been designed to operate under normal real conditions intended for audio amplifiers. Only in this way it will be able to produce high quality playback of audio signals. Unrealistic tests, such as listening to an unoccupied input at full volume, only result in a nonsense noise and noise signal, which is normal under such conditions. Also quickly successive actuation of the control buttons or rotary switches at the **EXXGEED** or also at the remote control has no realistic meaning or purpose and produces only malfunctions, without having any benefit or symbolizing a quality feature.

So that you can enjoy your audio system for a long time, it should be operated as intended.

5 Technical Data

Inputs	: 5x analogue, 4x digital SPDIF : optional 1x USB-HiRes Audio PCM/DSD
Input Impedance	: analog 47 KOhm
Input Sensitivity	: 0,5V (analogue)
Output Power	: 2x 100 / 170 W at 8/4 Ohm
Damping Factor	: >100 (at 8 Ohm 1KHz)
Distortion (THD + N)	: < 0.015%
Outputs	: 1x Speaker, 1x Phones, : 1x unbalanced Line Out / Rec Out, : 1x balanced XLR Pre Out
Bandwidth	: digital Inputs 20 Hz – 22kHz (-3dB) : analogue Inputs 5Hz – 250kHz (-3dB)
Signal Noise	: > -86 dB at 1 Watt at 4 Ohm
Noise (A-filtered)	: > -92 dB at 1 Watt at 4 Ohm
Weight	: 18,3Kg
Dimensions	: 440 x 110 x 380 mm (BxWxD)

01.2017 Änderungen vorbehalten

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Designed and Manufactured by